

Comprehensive Bank

Medicinal plants

Province Fars





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Introduction:

With four different vegetative zones, Iran has a unique treasure of medicinal plants. In addition, the position of these products in the pharmaceutical basket of families has caused this field to have a high capacity in job creation, wealth generation, and foreign exchange for the country. For this reason, the Supreme Leader of the Islamic Revolution, in the clauses of the general health policy, referred to the promotion of the cultivation of medicinal plants under the supervision of the Ministry of Agricultural and the support of the development of scientific and technical innovations in the production and supply of traditional medicinal products under the supervision of the Ministry of Health and Medical Education.

Fars province, located in the vegetative areas of the Gulf of Oman and Zagros, has various ecological characteristics and suitable soil conditions, and has a flora rich in medicinal plants. More than 1,600 species of medicinal plants have been identified in this province and at least 50 of them have public, traditional and commercial uses. Nowadays, due to changes in rangeland uses and destruction of forests, the occurrence of successive and long-term droughts, reduction of water resources and overgrazing of livestock, we are witnessing the loss of natural resources of medicinal plants.

In this regard, the movement for the production of medicinal plants with the aim of increasing productivity, improving the livelihood of farmers, as well as preserving endangered plant species, has been the focus of support and planning of the Fars Province Agricultural Jihad Organization

Ahad Behjat Haghighi
President of the Agriculture-Jahad Organization of Fars Province



Future Prospects for the Development of Medicinal Plants:

According to the Ministry of Health, about 3 percent of Iranians use herbal medicines and 97 percent use chemical medicines. About 150 types of herbal medicines and 4200 types of chemical medicines are available in the Iranian market. Due to the increasing awareness of people about the role of herbal medicines and the harmful effects of chemical drugs, the use of herbal medicines and consequently the development of the cultivation of these plants is increasing. The export of medicinal plants has gradually become one of the most profitable branches of the agricultural economy. According to the FAO (World Food and Agriculture Organization), the volume of trade in medicinal plants will increase 100 times by 2050 and reach \$500 billion.

This comes at a time when the issue of chemical-free treatment is being seriously pursued in the industrialized countries of the world. The area under cultivation of medicinal plants in the country is about 80,000 hectares, which is supposed to reach 200,000 hectares in a comprehensive plan prepared for this purpose.

These figures show the country's high capability and capacity, which has been neglected so far, but with the appropriate measures taken in the last few years, this amount is increasing. Of the 422,000 plant species in the world, there are about 8,000 species in Iran, of which 1,728 species grow exclusively in Iran alone.



Applications of medicinal plants:

Medicinal plants have a special value and importance in ensuring the health and well-being of human societies, both in terms of treatment and prevention of diseases. This use has been as old as human history and plants have always been one of the most important sources of food and medicine for human beings over many generations.

From a historical point of view, plants have been very important in the development of societies and extensive research has been done to find natural products and materials of herbal medicines throughout history, which fortunately with the world, especially developed countries, turning to the use of herbal products and their increasing consumption in the world, the emerging industry of medicinal plants is being formed. Some of the uses of medicinal plants include:

- Production of herbal medicines
- Production of cosmetics
- Application in the food industry
- Application as a pesticide in plant pest control
- ❖ The use of medicinal plants in traditional medicine
- The Role of Medicinal Plants in the Tourism Industry
- Role in Job Creation



The importance of medicinal plants from economic, social and environmental aspects:

The development of investment in the field of medicinal plants industries in the first place depends on the culture-building, promotion and development of the use of medicinal plants and their products inside the country, and the export of medicinal plants and their products will also play a decisive role in the development of the medicinal plants industry. The medicinal plants industry is one of the most important industries in Iran, which is very compatible with the new climatic conditions of the country (water scarcity).

Nowadays, the importance of medicinal plants and their vital role in advancing national, regional and global goals for the realization of health, pharmaceutical self-sufficiency, job creation and economic development is not hidden. Currently, the value added from the export of medicinal plants in the world is reported to be about \$111 billion in 2018, which is expected to reach \$5,000 billion in 2050.

Medicinal plants have a special value in the biological sciences, medicine, and veterinary sciences in terms of prevention and treatment of human diseases, and in recent years, the use of medicinal plants has been increasing day by day due to their proven beneficial effects, cheapness, lack of side effects, and also compatibility with the environment.

Creating suitable investment opportunities for the production of more medicinal plants in the agricultural sector is important and it is necessary to conduct extensive research in the field of various products produced from these plants, especially in Iran.



Objectives of developing the area under cultivation of medicinal plants:

- ❖ Efforts to manage knowledge in the field of medicinal plants and traditional medicine;
- Self-reliance, job creation and maximum use of domestic power in the field of medicinal plants and traditional medicine;
- Maximum participation of the private sector, cooperatives, non-governmental organizations and foreign investors and emphasis on coordination
- Observance of biosafety principles within the framework of international protocols accepted in the country;
- Maximum use of nature and natural products in line with human health and social welfare while preserving nature's ecosystem cycles;
- Reducing government enterprise, strengthening the private sector, and supporting the creation and quantitative and qualitative development of knowledge-based companies;
- Preserving the genetic resources of the country's native and exclusive medicinal plants;
- foreign exchange from exports;
- * Reducing pharmaceutical dependence on foreign countries and preventing foreign currency outflows;
- ❖ Increasing the area under cultivation by 27,500 hectares from 2017 to 2025
- ❖ Maximum focus on marketing medicinal plants and identifying destination countries

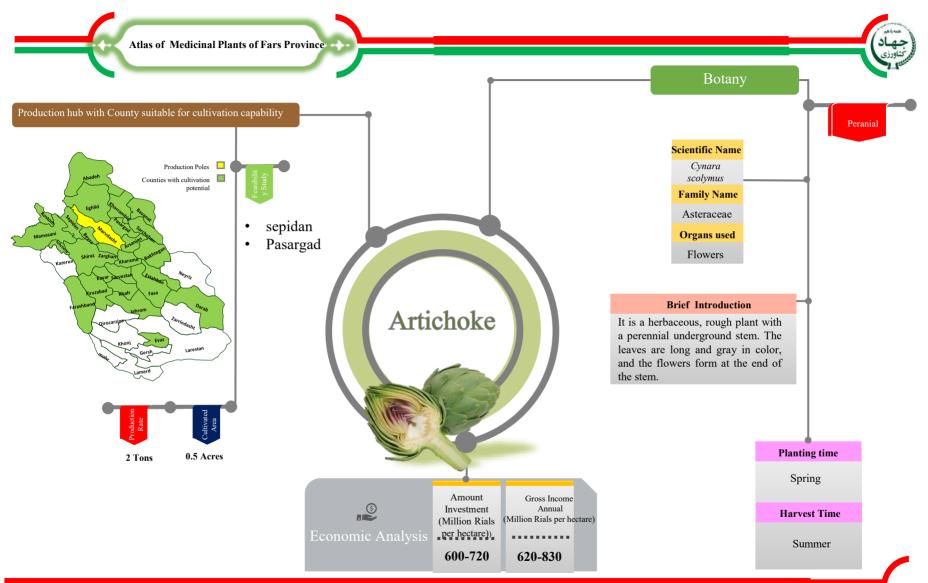


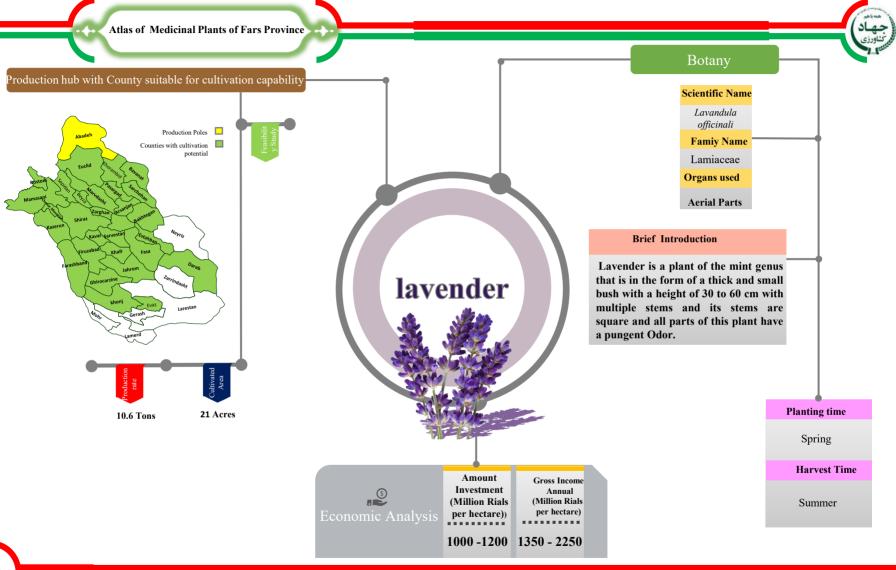
- **❖** Medicinal Plants Development Program with a Sustainable and Knowledge-Based Development Approach in Fars Province:
- Increasing the added value of products for domestic consumption by improving the quality of production, harvesting, processing and packaging processes for domestic consumption
- ❖ Increasing the added value of exported pharmaceutical products by preventing bulk exports and raw sales (development of the production chain to processing, export and trade)
- * Establishment of pharmaceutical processing and packaging industries in major production hubs to empower villagers
- ❖ Laying the groundwork and creating basic infrastructure for the construction of a large factory for the processing of medicinal plants in the province
- Preventing the extinction of endangered species through propagation by tissue culture method (e.g. Thymus sapiens)
- Supply of raw materials required by processing and pharmaceutical companies
- ❖ Increasing the productivity of medicinal plants by increasing yield per unit area by measures including: breeding and agronomics, identification and propagation of superior and high-yielding cultivars and genotypes with low water requirement
- Creating jobs to prevent migration and urbanization.

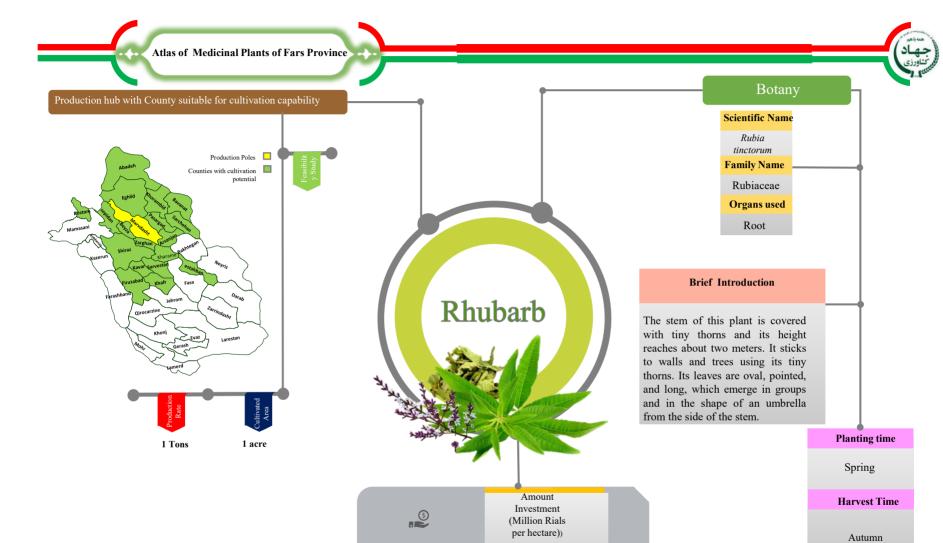
Optimal use of existing lands and facilities



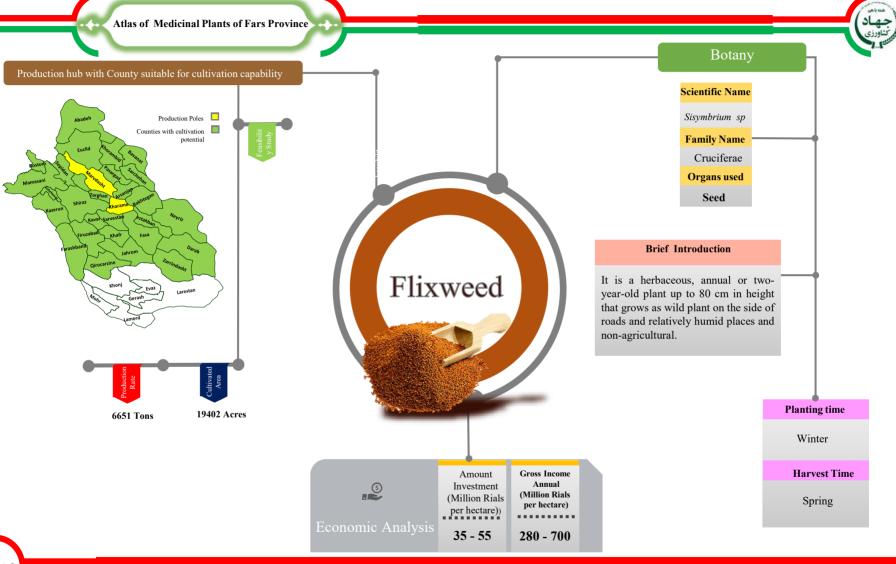
- Using the capacity of medicinal plants for the development of ecotourism and nature tourism
- ❖ Maximum utilization of water and soil resources, especially water and soil resources of grade 2 and 3 for quantitative and qualitative development
- Diversification in the production of medicinal plants through the development of the cultivation of multiple species
- Organizing Traditional Perfumes
- Setting up supply and export terminals for medicinal plants
- ❖ Increasing Competition among Medicinal Plant Producers
- Creating a culture of promoting the cultivation of medicinal plants among farmers and producers
- Supply of suitable seeds
- Providing low-cost facilities for the development of the cultivation of medicinal plants in the province
- The use of medicinal plants in the beekeeping industry





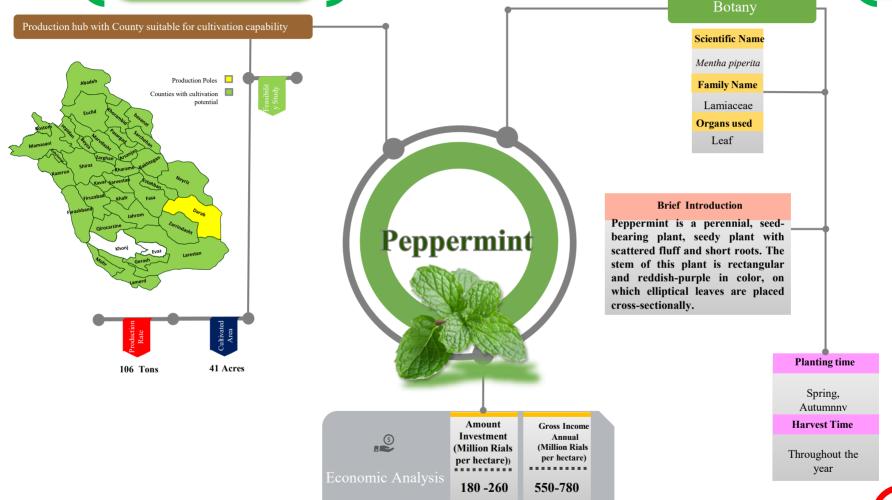


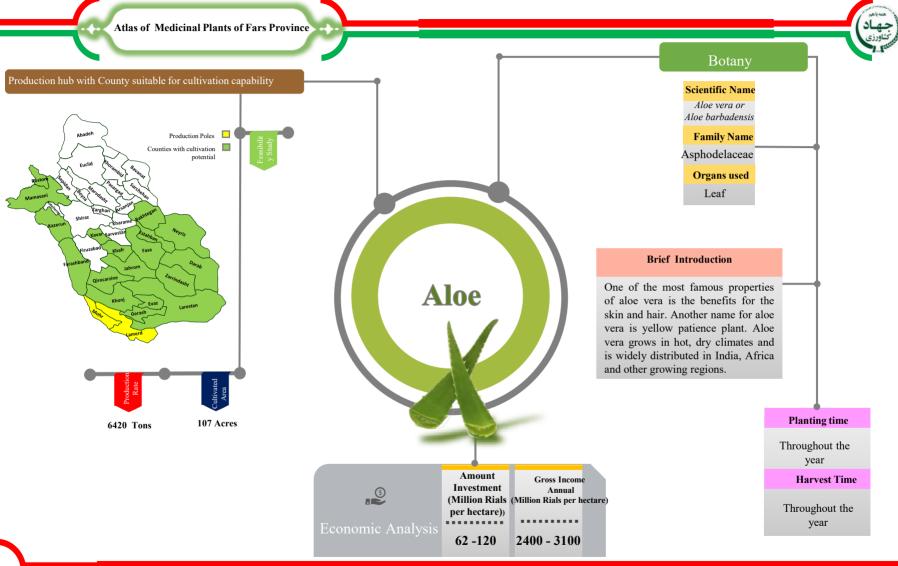
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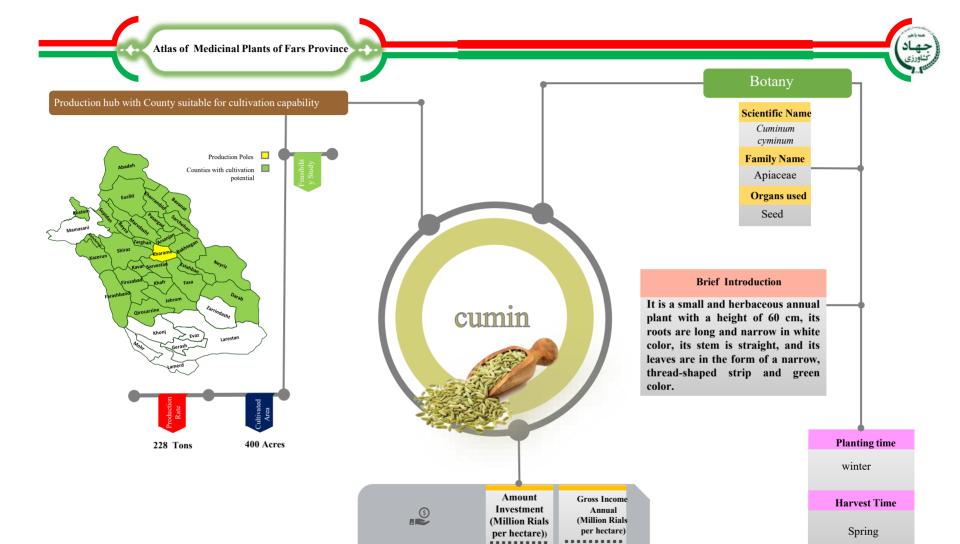






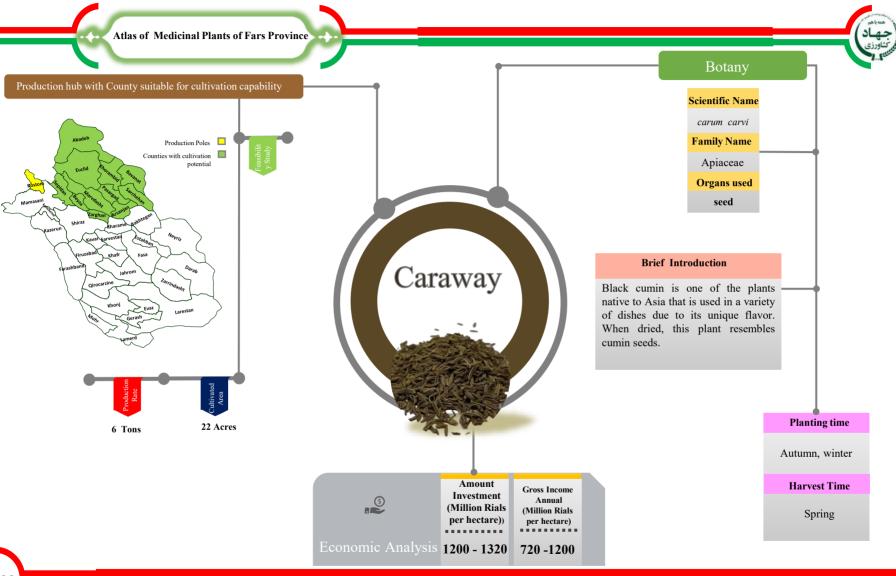






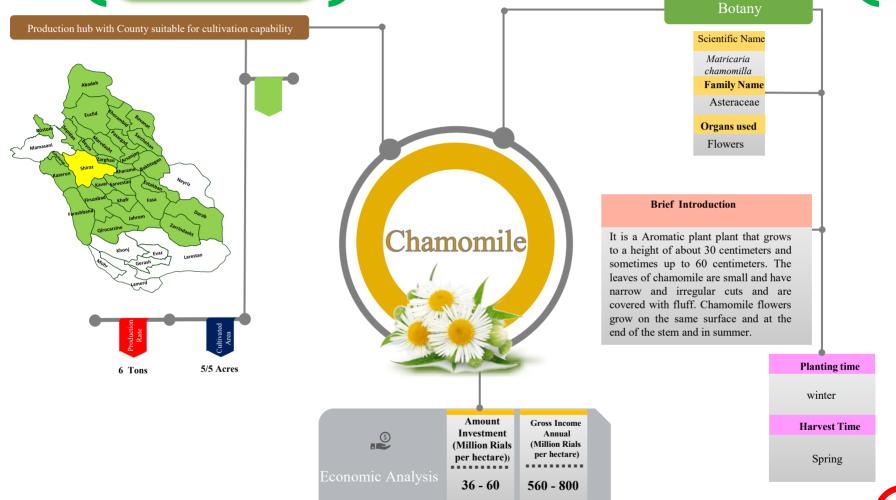
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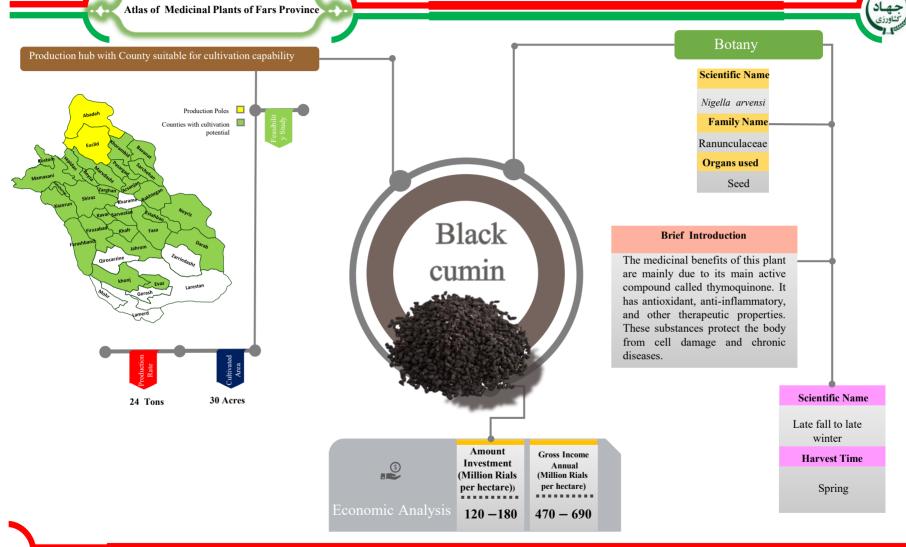
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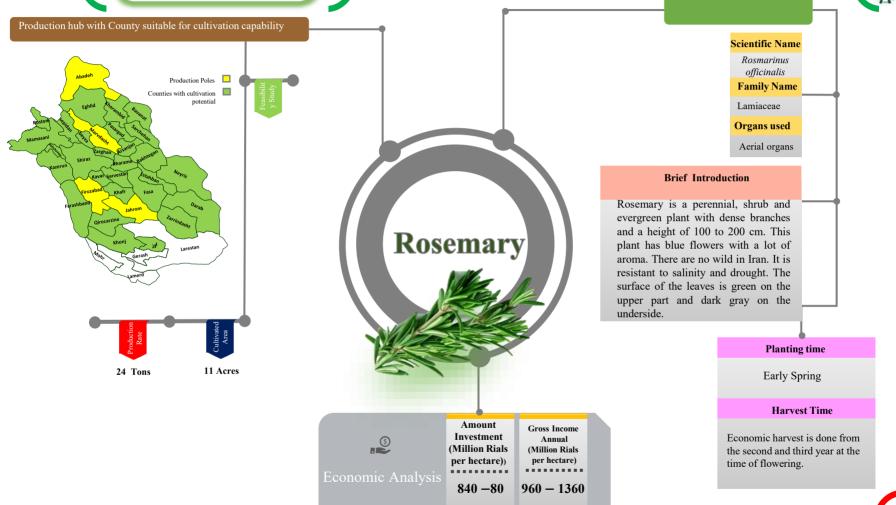


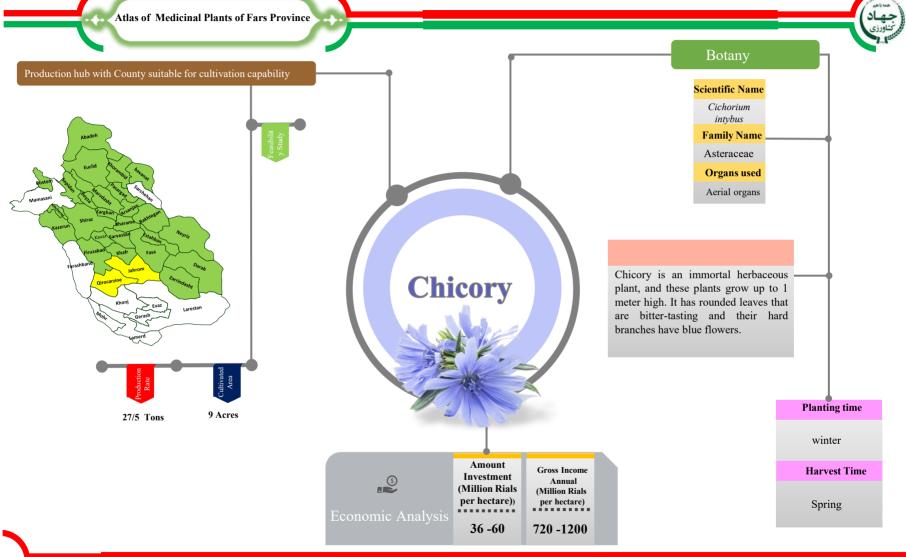


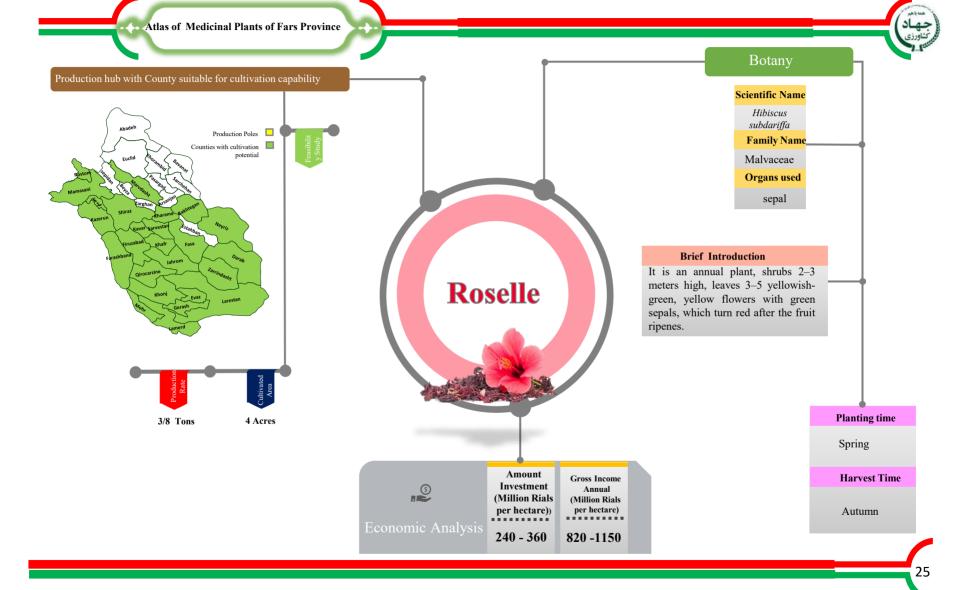


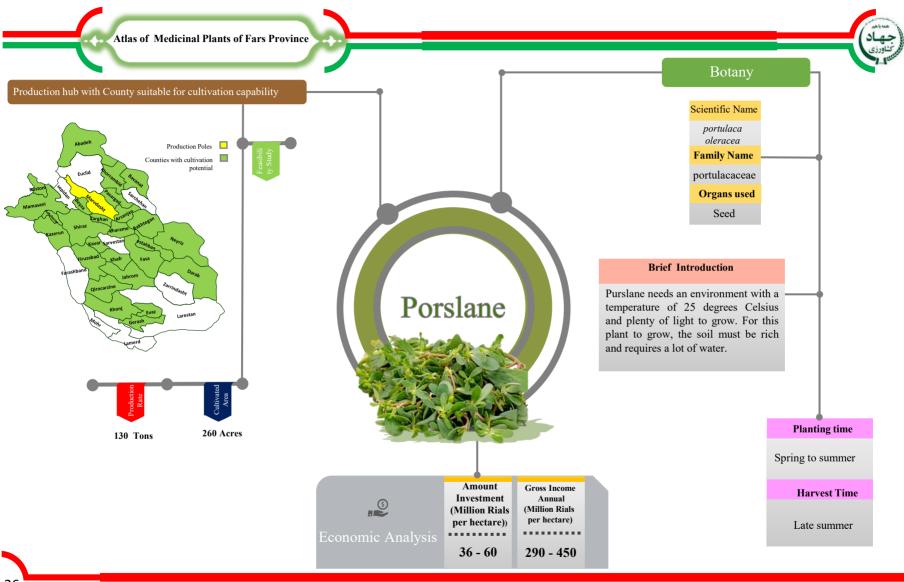


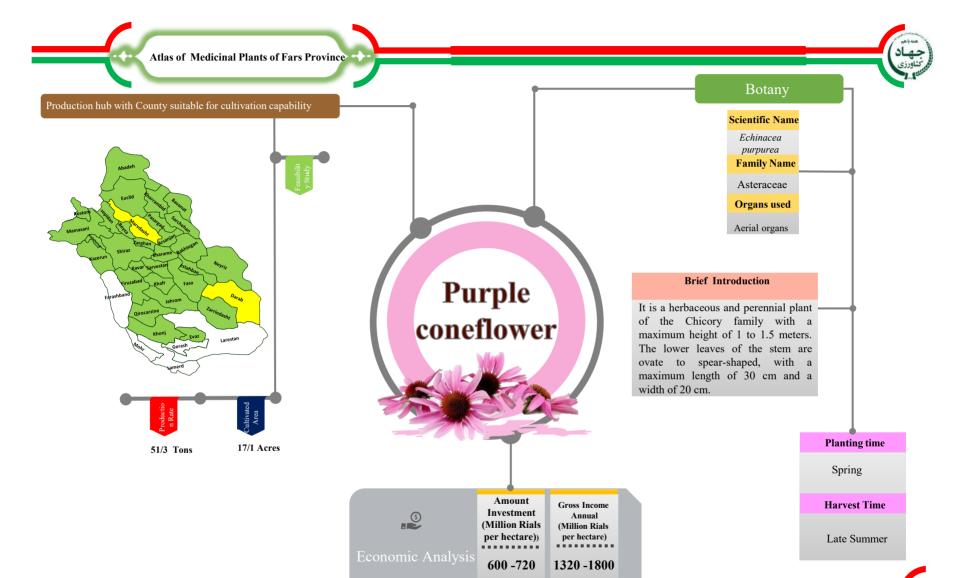


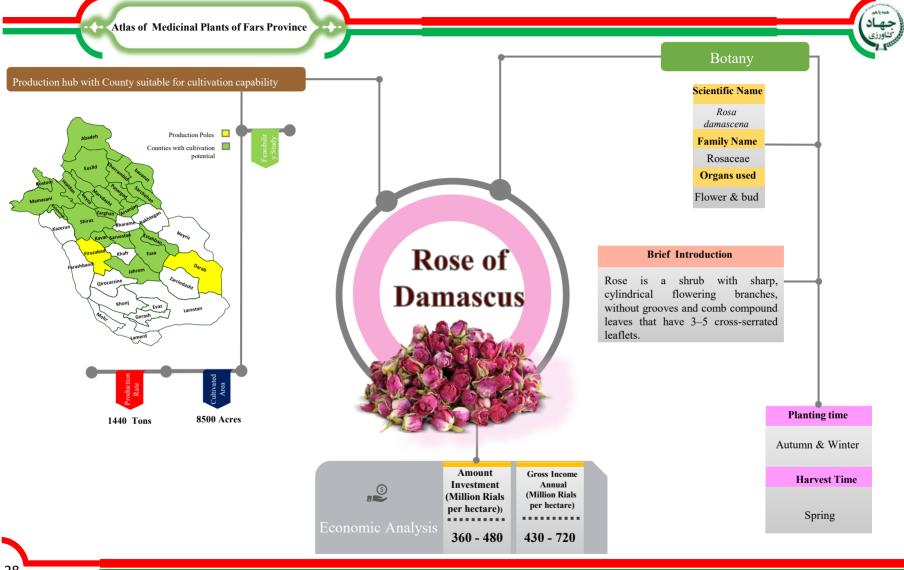


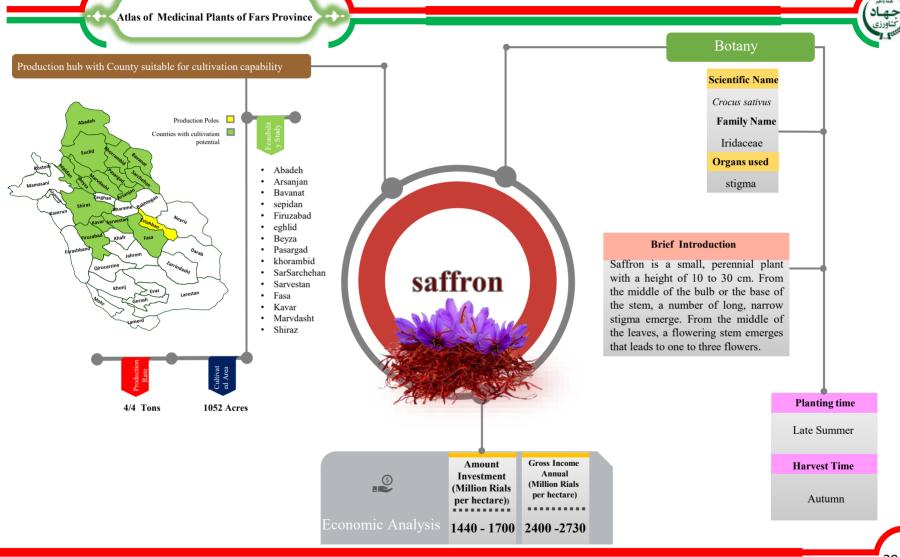


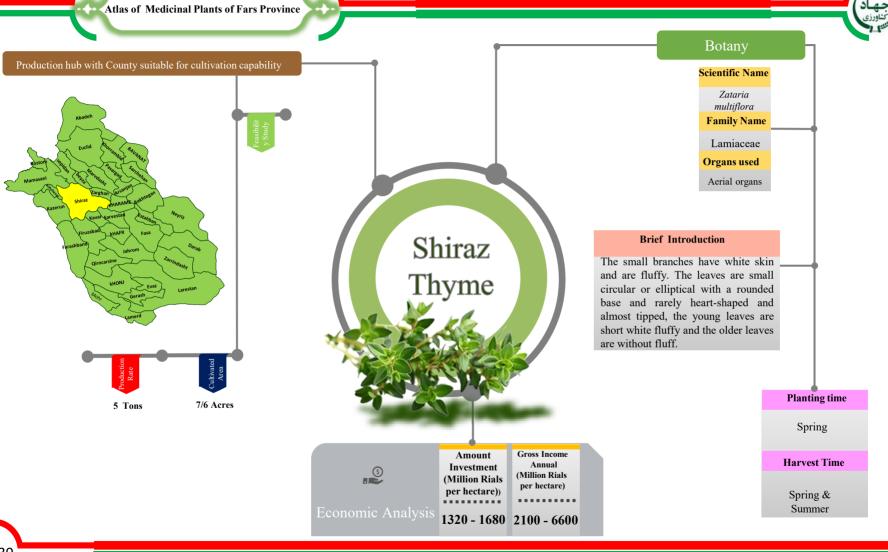


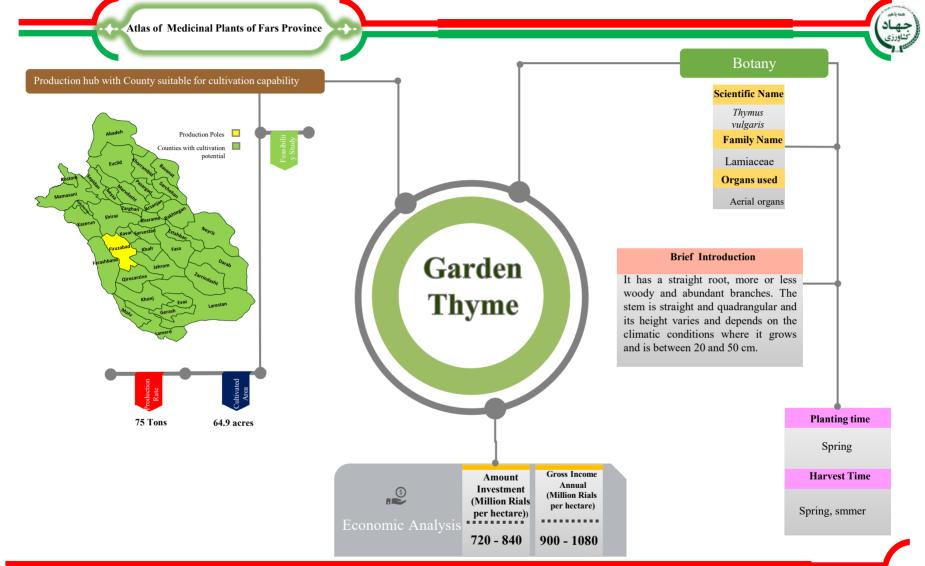


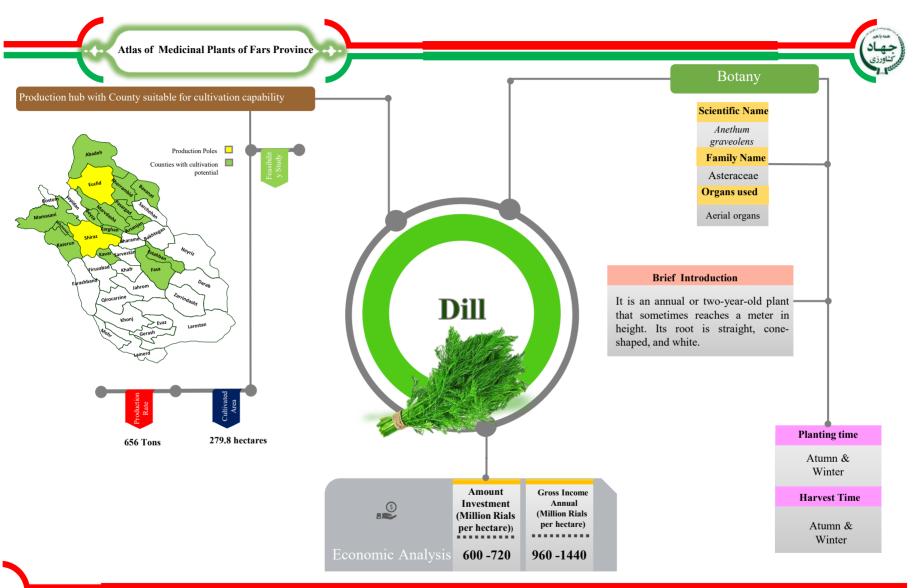












Atlas of Medicinal Plants of Fars Province Botany Production hub with County suitable for cultivation capability Scientific Name Satureja hortensis Production Poles **Family Name** Counties with cultivation potential Lamiaceae Organs used Aerial organs Brief Introduction Savory is an annual plant of the mint Savor genus with numerous and reddish stems that grows wild in abundance in southern Europe and Asia (including Iran). Planting time 10 Tons 9.2 hectares Spring Amount Harvest Time **Gross Income** Investment (S) Annual (Million Rials (Million Rials per hectare)) per hectare) Spring, Summer

180 -200

530 -720

